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APPLICANT : NIPPON PAINT CO LTD;

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TITLE : METHOD FOR MODIFYING SURFACE OF ORGANIC PIGMENT

ABSTRACT : PURPOSE: To impart polarity to the surface of an org. pigment to improve the dispersibility thereof without having an adverse effect upon tint and fastness, by treating the org. pigment with an oxidizing agent.

CONSTITUTION: An org. pigment is treated with an oxidizing agent. Examples of the oxidizing agents are those which can bond oxygen to the surface of the pigment by an oxidation reaction to form a polar compd., and peroxides such as ozone and hydrogen peroxide and their derivatives, nitric acid and its salts, oxo acids and their salts such as perchloric acid and its salts are particularly preferred. Methods for treating the org. pigment with the oxidizing agent include a dry process comprising contacting the pigment with an oxidizing gas or vapor and a wet process comprising adding an oxidizing agent to an aq. suspension obtd. by suspending an org. pigment in water.

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